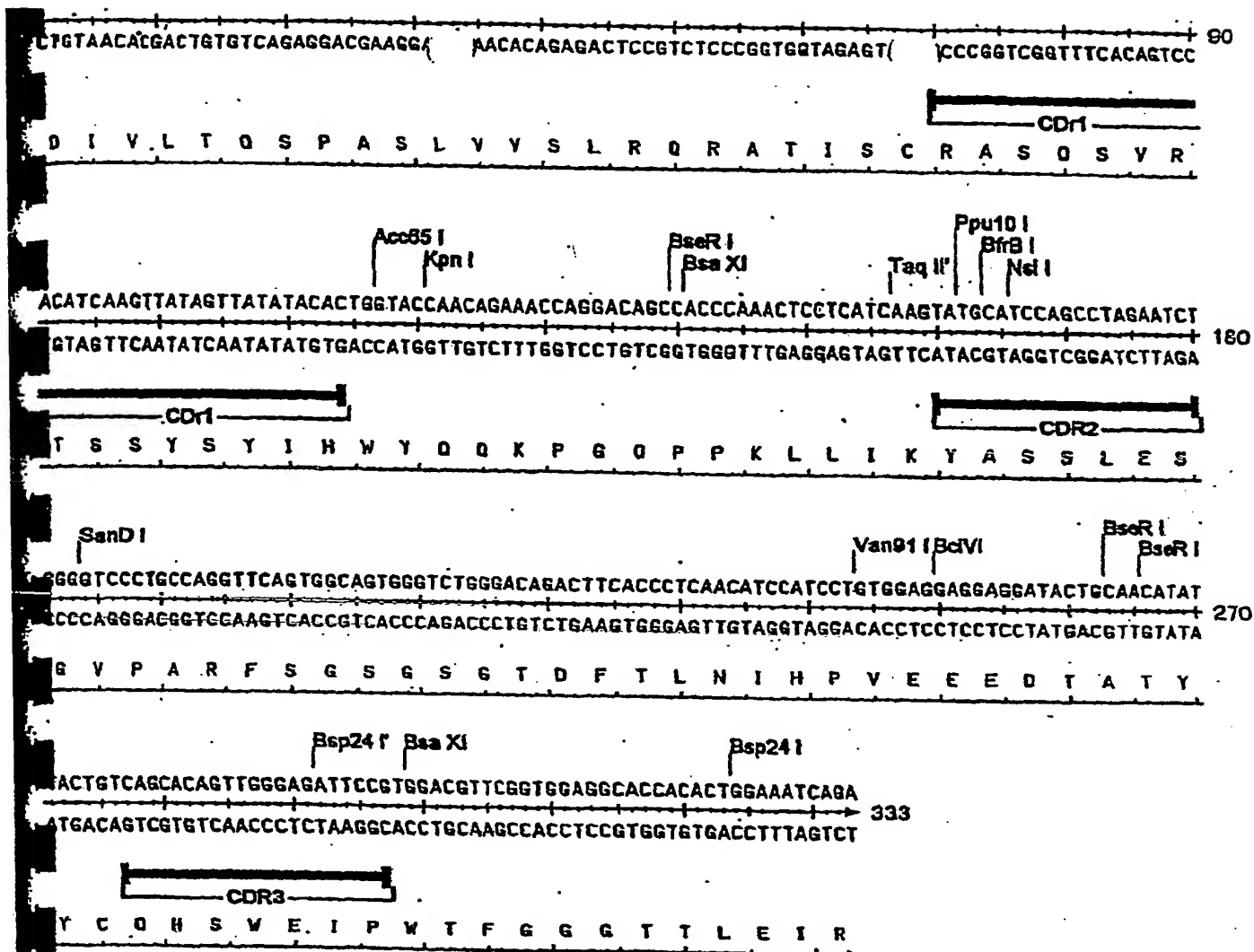
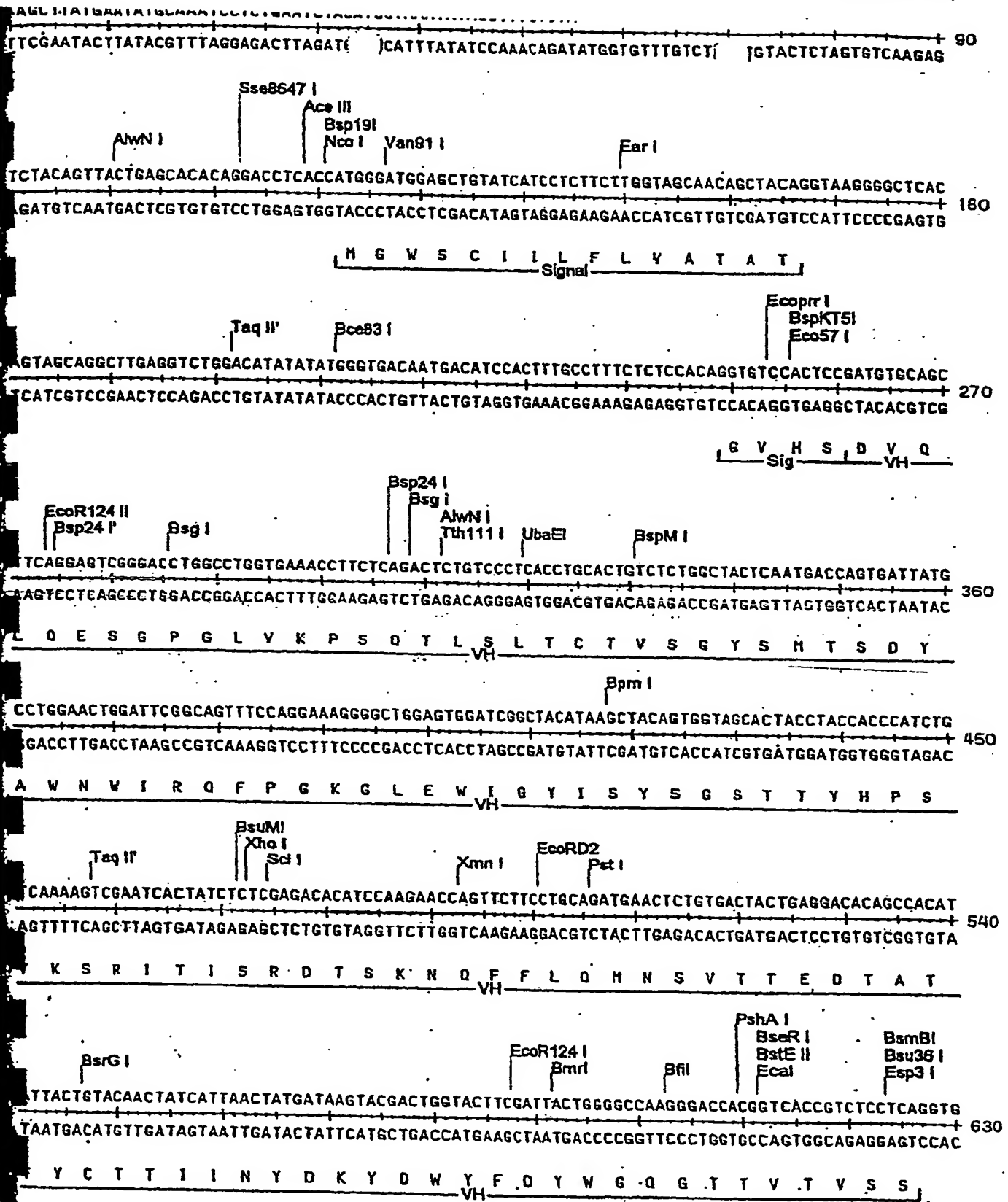
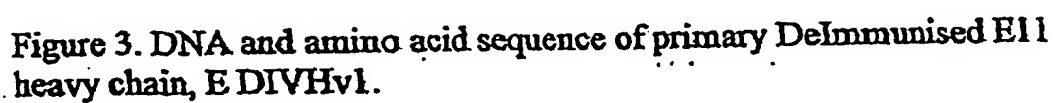


10/551525

Figure 2. DNA and amino acid sequence of murine E11 V_L





Hind III

AGCTTATGAATATGCAATCCTCTGAATCTACAT AAATATAGGTTTGTCTATACCACAAACAGAAA/ ATGAGAT 80
TCGAATACTTATACGTTTAGGAGACTTAGATGTACCATTATATCCAAACAGATATGGTGTGTTTGTCTTTTGTACTCTA

Sse847 I

AlwNI

Aco III

Bsp19 I

Nco I

Van91 I

Eer I

ACAGTTCTCTCTACAGTTACTGAGCACACAGGACCTCACCATGGGATGGAGCTGTATCATCCTCTTCTTGGTASCAACA 160
TGTCAGAGAGAGATGTCAATGACTCGTGTGTCTCTGGAGTGGTACCCTACCTCGACATAGTAGGAGAAGAACCATCGTTGT

M G W S C I I L F L V A T
Signal

Taq II

Bce83 I

CTACAGGTAAGGGGCTCACAGTAGCAGGCTTGGGCTGACATATATATGGGTGACAATGACATCCACTTTGCCTTTC 240
TGATGTCCATTCCCCGAGTGTCTCGTCCGAAGTCCAGACCTGTATATATACCACTGTTACTGTAGGTGAACGGAAAG

A T
Signal

Bsa XI

Tth111 I

EcoPII

CTCCACAGGTGTCCACTCCGACATTGTGCTGACACAGTCTCCTGCTTCCTTAGTTGTGTCTGTGAGGCAGAGGGCCACC 320
AGAGGTGTCCACAGGTGAGGCTGTAACACGACTGTGTGACAGGACGAAGGAATCAACACAGACACTCCGTCCTCCGCTGG

G V H S D I V L T O S P A S L V V S V R Q R A T
Sig VL

Aco65 I

Kpn I

BseR I

Bsa XI

ATCTCATGCAGGGCCAGCCAAAGTGTGAGGACATCAAGTTATAGTTATATACACTGGTACCAACAGAAACCAGGACAGCC 400
TAGAGTACGTCCCGGTCGGTTTCACAGTCTGTAGTTCAATATCAATATATGTGACCATGGTTGTCTTTGGTCTGTGCG

I S C R A S Q S V R T S S Y S Y I H W Y Q Q K P G Q P
VL

Ppu10 I

BstB I

Nsi I

Taq II

SnaD I

ACCCAAACTCCTCATCTACTATGCATCCAGCCTAGAATCTGGGGTCCCTGCCAGGTTCAAGTGGCAGTGGGCTGTGGACAG 480
GGGTTTGAGGAGTAGATGATACGTAGGTCCGATCTTAGACCCACGGACGGTCCAAGTCAACGTCACCCAGACCCCTGTC

P K L L I Y Y A S S L E S G V P A R F S G S G S G T
VL

BclVI

BseR I

BseR I

Taq II

Bsa XI

Bst22 I

CTTCAACCTCAACATCACTCCTGTGGAGGAGGAGGATACTGCAACATAJTACTGTGACACAGTTGGGAGATTCCGTGG 560
TGAAGTGGGAGTTGTAGTCAGGACACCTCCTCCTCTATGACGTTGTATAATGACAGTGTGTCAACCTCTAAGGCACC

F T L N I S P V E E E D T A T Y Y C Q H S V E I P W
VL

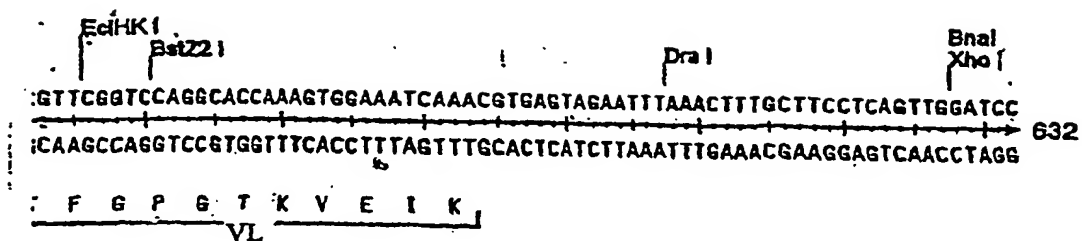


Figure 4. DNA and amino acid sequence of primary DeImmunised E11 light chain, E DIVLvl.

	10	20	30	
1	DVQLQESGPG	LVKPSQSLS	LTCTVTGY	SI T E11 MoVH.PRO
1	DVQLQESGPG	LVKPSQTL	SLTCTVSG	YSMT E11 DiVH-v1.PRC
1	DVQLQESGPG	LVKPSQTL	SLTCTVSG	YSMT E11 DiVH-v2.PRC
1	DVQLQESGPG	LVKPSQTL	SLTCTVSG	YSMT E11 DiVH-v3.PRC
1	DVQLQESGPG	LVKPSQTL	SLTCTVSG	YSIT E11 DiVH-v4.PRC
1	DVQLQESGPG	LVKPSQTL	SLTCTVTG	YSIT E11 DiVH-v5.PRC
	40	50	60	
31	SDYAWNWI	RQFP	GKLEWMGY	ISYSGSTSY E11 MoVH.PRO
31	SDYAWNWI	RQFP	GKLEWIGY	ISYSGSTTY E11 DiVH-v1.PRC
31	SDYAWNWI	RQFP	GKLEWIGY	ISYSGSTSY E11 DiVH-v2.PRC
31	SDYAWNWI	RQFP	GKLEWIGY	ISYSGSTSY E11 DiVH-v3.PRC
31	SDYAWNWI	RQFP	GKLEWIGY	ISYSGSTSY E11 DiVH-v4.PRC
31	SDYAWNWI	RQFP	GKLEWIGY	ISYSGSTSY E11 DiVH-v5.PRC
	70	80	90	
61	HPSLKSRI	SITRDT	SKNQFFL	QLNSVTTE D E11 MoVH.PRO
61	HPSVKSR	ITISRD	TSKNQFF	LQMNSVTTE D E11 DiVH-v1.PRC
61	HPSVKSR	ITISRD	TSKNQFF	LQMNSVTTE D E11 DiVH-v2.PRC
61	HPSLKSRI	SITSRD	TSKNQFF	LQMNSVTTE D E11 DiVH-v3.PRC
61	HPSLKSRI	SITSRD	TSKNQFF	LQMNSVTTE D E11 DiVH-v4.PRC
61	HPSLKSRI	SITSRD	TSKNQFF	LQMNSVTTE D E11 DiVH-v5.PRC
	100	110	120	
91	TATYYCTT	IIN	YDKYD	WYFDVWGAGTTVTV E11 MoVH.PRO
91	TATYYCTT	IIN	YDKYD	WYFDYWGQGTTVTV E11 DiVH-v1.PRC
91	TATYYCTT	IIN	YDKYD	WYFDVWGQGTTVTV E11 DiVH-v2.PRC
91	TATYYCTT	IIN	YDKYD	WYFDVWGQGTTVTV E11 DiVH-v3.PRC
91	TATYYCTT	IIN	YDKYD	WYFDVWGQGTTVTV E11 DiVH-v4.PRC
91	TATYYCTT	IIN	YDKYD	WYFDVWGQGTTVTV E11 DiVH-v5.PRC
121	SS			E11 MoVH.PRO
121	SS			E11 DiVH-v1.PRC
121	SS			E11 DiVH-v2.PRC
121	SS			E11 DiVH-v3.PRC
121	SS			E11 DiVH-v4.PRC
121	SS			E11 DiVH-v5.PRC

Figure 5. Comparison of amino acid sequences of murine and DeImmunised E V_H

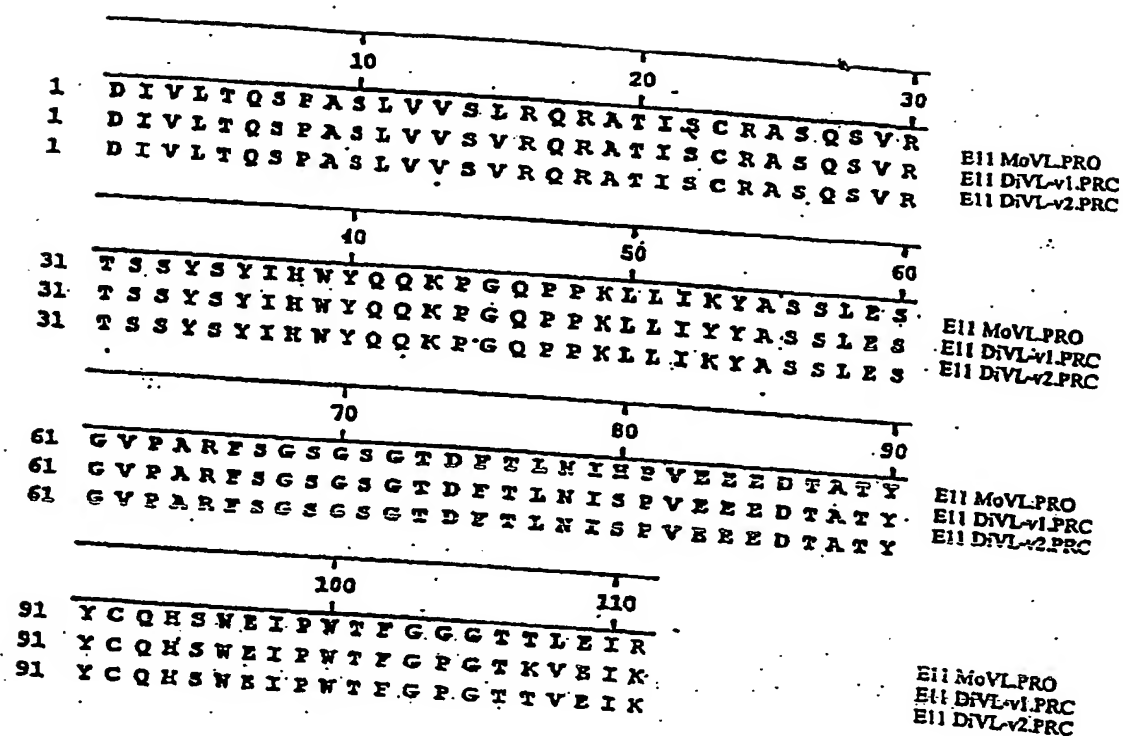


Figure 6. Comparison of amino acid sequences of murine and DeImmunised E VL.

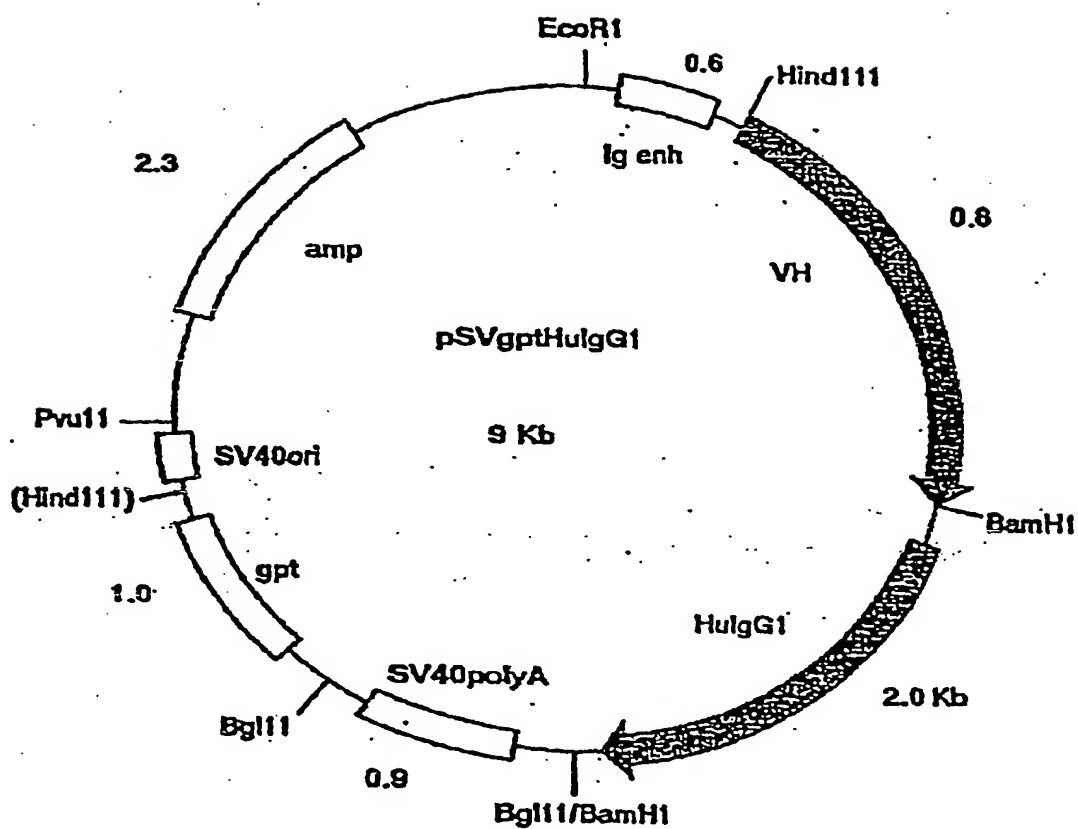


Figure 7. Heavy Chain Expression Vector

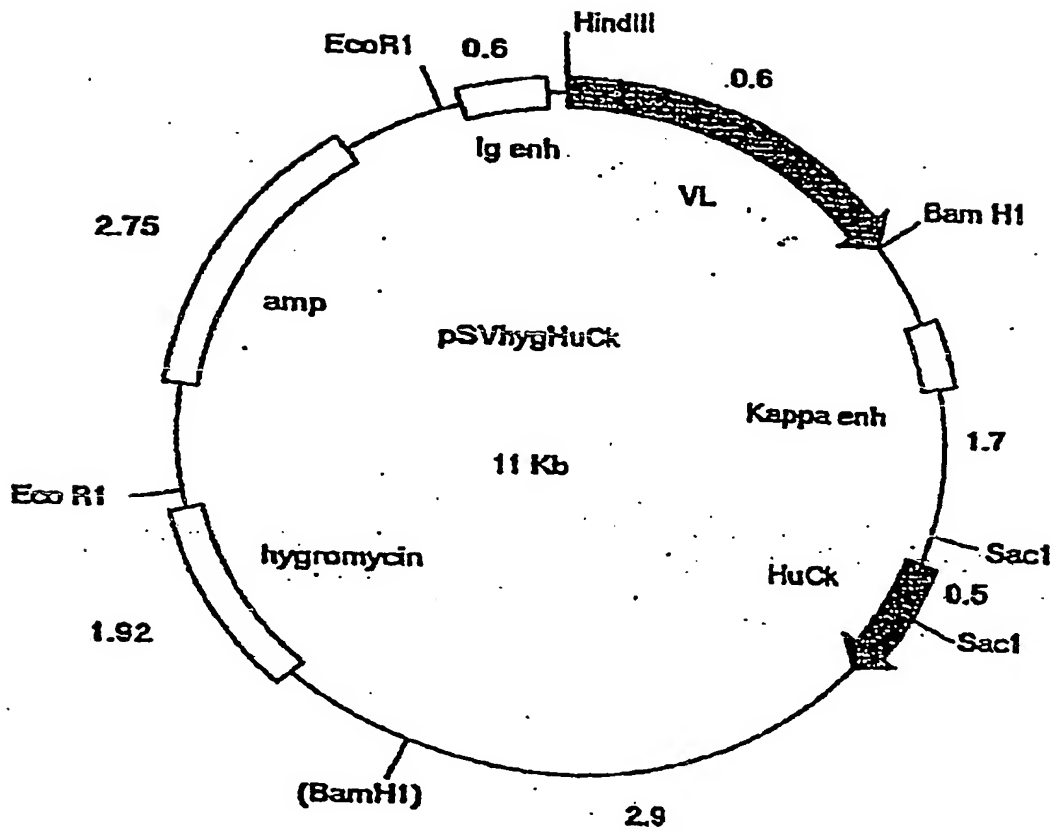


Figure 8. Light chain Expression vector

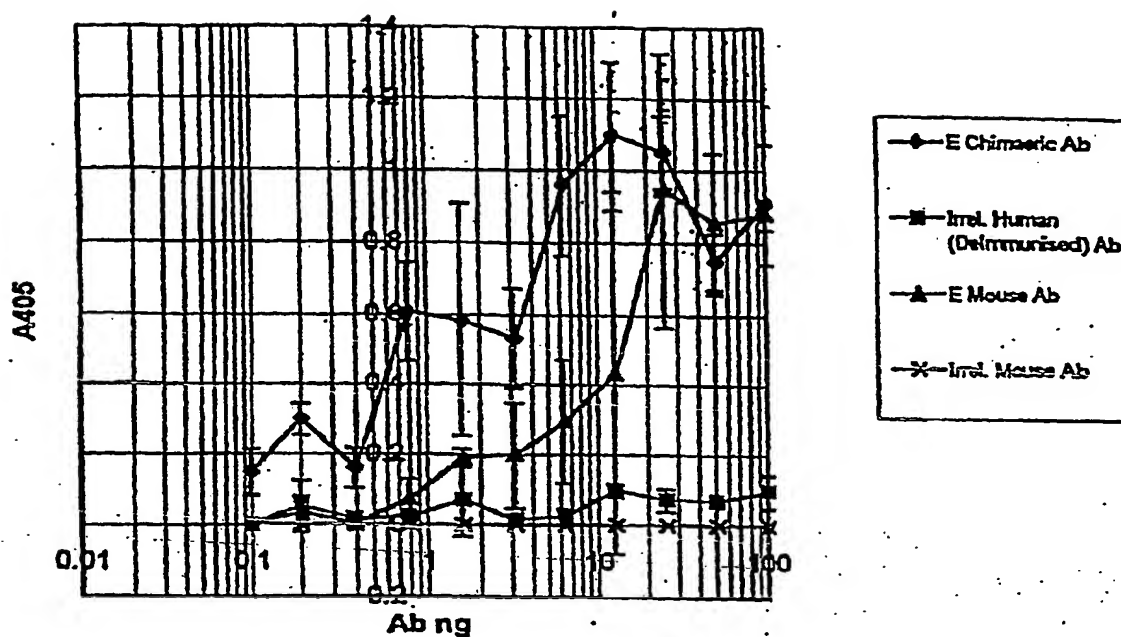


Figure 9. Binding of Murine and Chimaeric E11 antibodies.

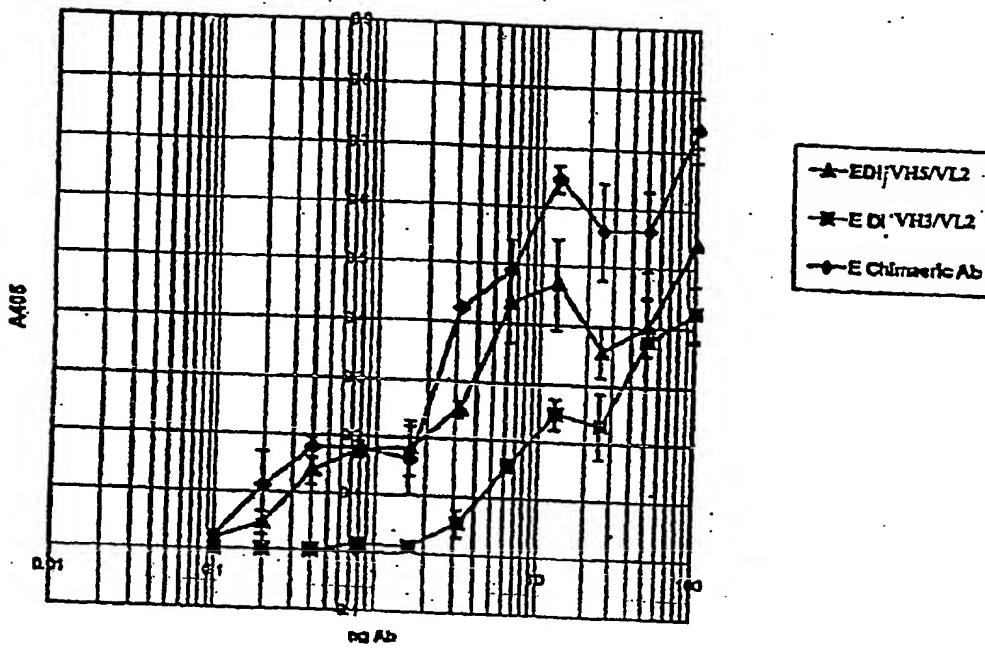


Figure 10. Binding of DeImmunised E antibodies HV5/VL2 and VH3/VK2 compared to the chimaeric antibody.

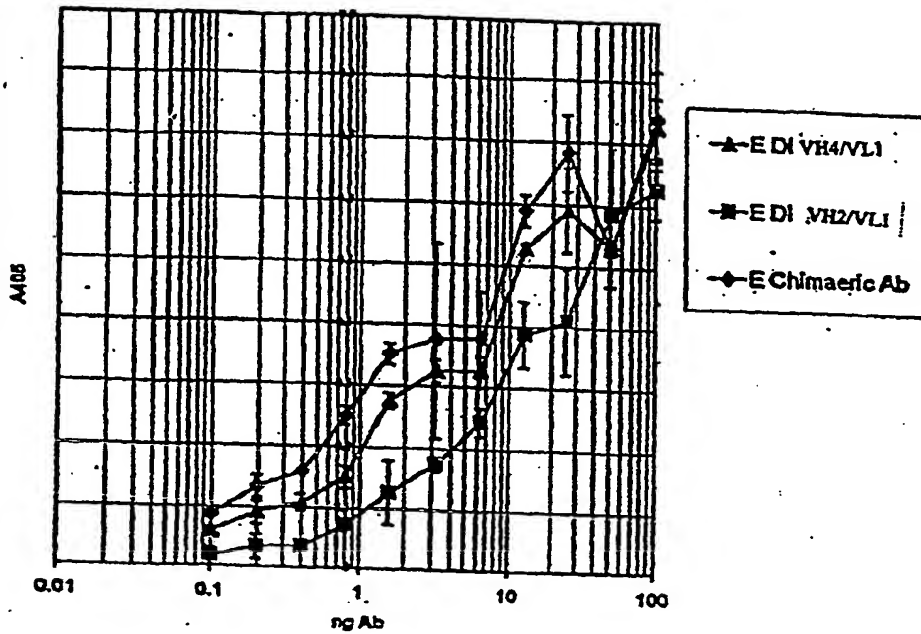


Figure 11. Binding of DeImmunised E antibodies HV4/VL1 and VH2/VL1 compared to the chimaeric antibody.

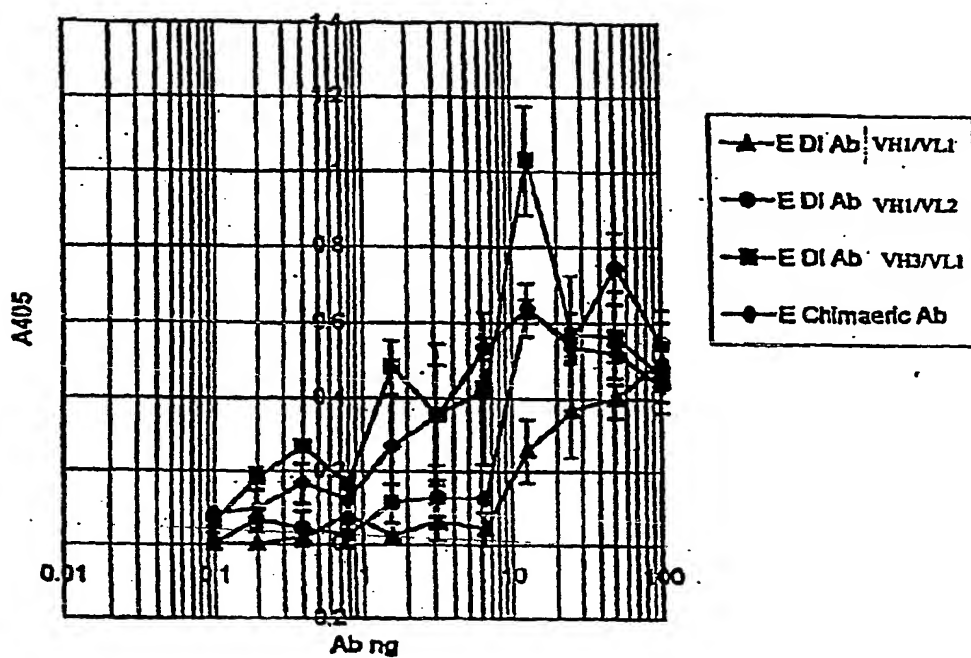


Figure 12. Binding of DeImmunised E antibodies HV1/VL1 and VH3/VL1 compared to the chimaeric antibody.

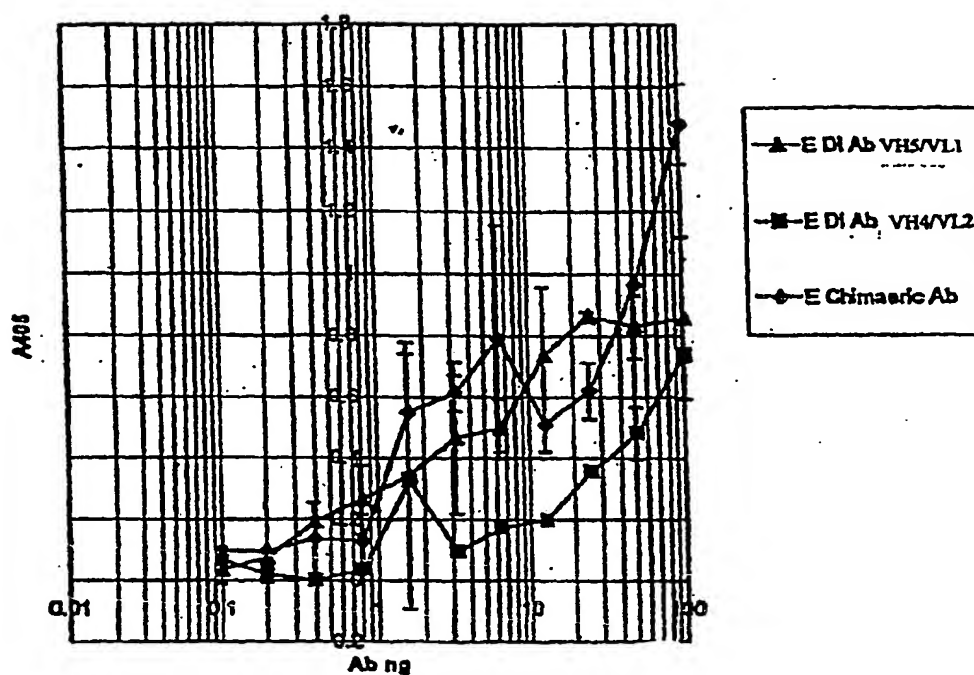
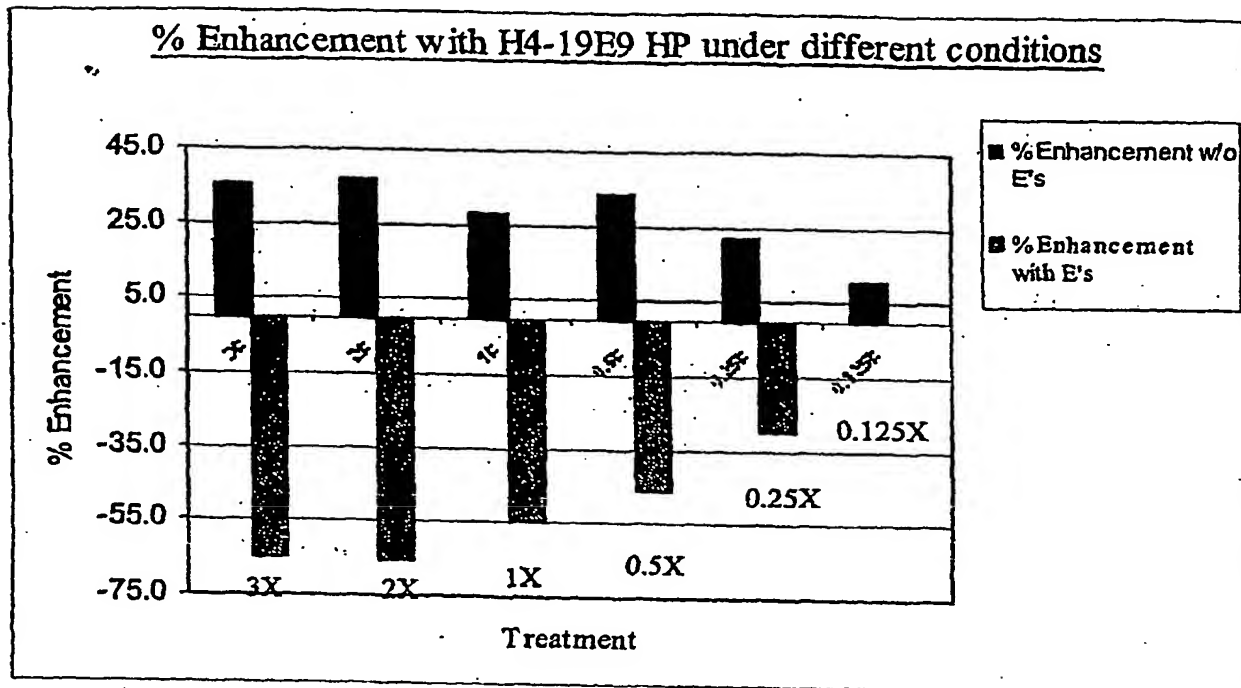


Figure 13. Binding of Deimmunised E antibodies HV5/VL1 and VH4/VL2 compared to the chimaeric antibody.

Figure 14A: Enhancement**Figure 14B: Protection**